ELSEVIER

Volume 579, Numbers 1–2, 5 May 1999

Journal of Organometallic Chemistry

Contents

Regular Papers

Complete carbonyl substitution in tricarbonylnitrosylcobalt
H. Brunner, P. Faustmann, B. Nuber 1

Derivative chemistry of $[UCl_2\{B(pz)_4\}_2]$: stability of complexes containing the fragments $[U\{B(pz)_4\}_2]$ and $[U\{HB(pz)_3\}_2]$
M.P.C. Campello, Â. Domingos, A. Galvão, A.P. de Matos, I. Santos 5

A methylene bridged dialuminium compound as a chelating Lewis acid—complexation of azide and acetate anions by $R_2Al-CH_2-AlR_2$ $[R = CH(SiMe_3)_2]$
W. Uhl, F. Hannemann 18

Crystal structures and polymerization catalytic properties of 1, 1, 2, 2-tetramethyldisilane-bis(3-*t*-butyl-η^5-cyclopentadienyl) titanium and zirconium dichlorides
G. Tian, B. Wang, S. Xu, Y. Zhang, X. Zhou 24

Synthesis and some chemical properties of *s-cis*-diferrocenyltrienes. The role of stereoelectronic factors in cationic dimerization reactions
E.I. Klimova, T. Klimova Berestneva, M. Martínez García, L. Ruíz Ramírez 30

Geometry and electronic structure of silylated hydroxylamine and carbamic acid derivatives
I. Pál Csonka, M. Mörtl, D. Knausz, V. Harmat, L. Szepes 38

Organometallic derivatives of multidentate phosphines [*o*-(methylthio)phenyl]diphenylphosphine and bis(*o*-(methylthio)phenyl(phenyl-phosphine: preparation and characterization of group 6 metal carbonyl derivatives
L. Hirsivaara, M. Haukka, S. Jääskeläinen, R.H. Laitinen, E. Niskanen, T.A. Pakkanen, J. Pursiainen 45

Stereochemical factors associated with the rearrangement of (2-ethyl-1-azabuta-1,3-diene)tricarbonyliron(0) complexes
T.N. Danks, M.E. Howells, M.J. Ackland 53

The synthesis, identification, and X-ray structure of a novel cationic alkynyl silver cluster polymer $[Ag_3(C_2Bu^t)_2^+]_n$
K.A. Al-Farhan, M.H. Ja'far, O.M. Abu-Salah 59

Synthesis and characterization of new transition metal diynyl complexes
C. Moreno, J.L. Gómez, R.-M. Medina, M.-J. Macazaga, A. Arnanz, A. Lough, D.H. Farrar, S. Delgado 63

Mixed-metal cluster chemistry XII: isocyanide derivatives of $[CpWIr_3(CO)_{11}]$; X-ray crystal structure of $[CpWIr_3(CO)_9(CNC_6H_3Me_2\text{-}2,6)_2]$
S.M. Waterman, M.G. Humphrey, D.C.R. Hockless 75

The preparation and reactions of alkynylphosphonate hexacarbonyldicobalt complexes
R.J. Baxter, G.R. Knox, M. McLaughlin, P.L. Pauson, M.D. Spicer 83

On the behaviour of dimethyl acetylenedicarboxylate in carbonylation and Khand reactions
R.J. Baxter, G.R. Knox, P.L. Pauson, M.D. Spicer 90

Cyclometallated compounds. XIII. Cyclopalladation of 2-phenoxypyridine and structurally-related compounds
D.J. de Geest, B.J. O'Keefe, P.J. Steel 97

Ethylene and propylene polymerization by cationic monocyclopentadienyl titanium catalysts containing the weakly coordinating anion $[B(C_6F_5)_4]^-$
S.W. Ewart, M.J. Sarsfield, E.F. Williams, M.C. Baird 106

Probing diruthenium σ-alkynyl bonding interactions via substituent effects. Linear free energy relationships in dinuclear compounds VI
C. Lin, T. Ren, E.J. Valente, J.D. Zubkowski 114

Synthesis and single-crystal X-ray structure of $[(DMPE)_2Ru(C_2H_4)CH_3]^+[(3,5\text{-}(CF_3)_2C_6H_3)_4B]^-$
K. Umezawa-Vizzini, T. Randall Lee 122

Synthesis and structures of paramagnetic binuclear (η^8-1,4-bis(trimethylsilyl)cyclooctatetraenide)titanium(III) chlorides
M. Horáček, V. Kupfer, U. Thewalt, M. Polášek, K. Mach 126

Tetrakis(trimethylstannyl) and bis(trimethylstannyl)dimethyl Group 14 element compounds, determination of coupling signs and measurements of isotope induced chemical shifts $^1\Delta^{12/13}C(^{119}Sn)$
B. Wrackmeyer, P. Bernatowicz 133

Elsevier Science S.A.

Bimetallische Allylkomplexe polycyclischer Kohlenwasserstoffe: Erste Beispiele aus der Übergangsmetallchemie
J.J. Schneider, D. Wolf, U. Denninger, R. Goddard, C. Krüger 139

A study on the catalytic pathways of the hydroalkoxycarbonylation reaction of styrene
C. Benedek, G. Szalontai, Á. Gömöry, S. Tõrös, B. Heil 147

Trichlorosilylation of chlorogermanes and chlorostannanes with $HSiCl_3/Net_3$ followed by base-catalysed formation of $(Me_3Ge)_2Si(SiCl_3)_2$ and related branched stannylsilanes
L. Müller, W.-W. du Mont, F. Ruthe, P.G. Jones, H.C. Marsmann 156

Interaction of oxygen functionalized alkenes with a methylaluminoxane–zirconocene catalyst studied by NMR
T. Helaja, K. Hakala, J. Helaja, B. Löfgren 164

$Ru_3(CO)_{12}$-catalyzed reaction of yne–imines with carbon monoxide leading to bicyclic α,β-unsaturated lactams
N. Chatani, T. Morimoto, A. Kamitani, Y. Fukumoto, S. Murai 177

The ability of 2-phosphabicyclo[2.2.2]oct-5-ene 2-oxides to undergo fragmentation of the bridging P-moiety
G. Keglevich, K. Steinhauser, G. Miklós Keserű, Z. Böcskei, K. Újszászy, G. Marosi, I. Ravadits, L. Tőke 182

Cyclopentadienyl dithiocarbamate and dithiophosphate molybdenum and tungsten complexes
M.V. Galakhov, P. Gómez-Sal, T. Pedraz, M.A. Pellinghelli, P. Royo, A. Tiripicchio, A. Vázquez de Miguel 190

Synthesis and reactivity of acylphosphine tetracarbonyl–iron complexes
J.-J. Brunet, R. Chauvin, B. Donnadieu, E. Thepaut 198

Synthesis of gold-(I) and -(III) complexes with diferrocenylphenylphosphine (PFc_2Ph). Crystal structure of $[Au(PFc_2Ph)_2]ClO_4$
M.C. Gimeno, P.G. Jones, A. Laguna, C. Sarroca 206

Reaction of *N*-(3-methyl-2-thienylmethylidene)aniline with diiron nonacarbonyl: cyclometalation induced methyl migration, imidoyl complex formation, and hydrogenation
D.-L. Wang, W.-S. Hwang, L. Lee, M. Y. Chiang 211

Complexes exhibiting non-conventional solubility: synthesis and characterization of *trans*-$Pt[(CF_3(CF_2)_5(CH_2)_2)_3P]_2Cl_2$
R.T. Stibrany, S.M. Gorun 217

Synthesis and electrochemistry of ferrocenemethylamine and its conjugated acid. Crystal structure of ferrocenemethylammonium chloride
H.-B. Kraatz 222

Synthesis and characterization of the cluster compounds containing double C_2M_2 (M=Co, Mo) cores. The single-crystal X-ray structures of $[O(CH_2C_2H\text{-}\mu)_2][Co_2(CO)_6]_2$ and $[O(CH_2C_2H\text{-}\mu)_2][Mo_2(C_5H_5)_2(CO)_4]_2$
X.-N. Chen, J. Zhang, Y.-Q. Yin, X.-Y. Huang, J. Sun 227

Ditelluroether complexes of Group 6 metal carbonyls: synthesis, spectroscopic studies and a comparison with dithio- and diseleno-ether analogues
A.J. Barton, W. Levason, G. Reid 235

Orthomanganation of the iminophosphorane $Ph_3P{=}NPh$, and of triphenylarsine-oxide and -sulfide
M.A. Leeson, B.K. Nicholson, M.R. Olsen 243

The reaction of $[Fe_2(\eta\text{-}C_5H_5)_2(CO)(CNMe)(\mu\text{-}CO)(\mu\text{-}CNMe_2)]^+$ and related salts with trifluoromethanesulphonic acid, $HOSO_2CF_3$: structure of *cis*-$[Fe_2(\eta\text{-}C_5H_5)_2(CO)_2(\mu\text{-}CNMe)\ (\mu\text{-}CNMe_2)]\ [BPh_4]$
K. Boss, C. Dowling, A.R. Manning, D. Cunningham, P. McArdle 252

Metal complexes of biologically important ligands, CXIV ferrocenyl–oxazolones as N and C donors in Pd(II), Pt(II) and Ir(III) complexes and ferrocenoyl–dipeptides
W. Bauer, K. Polborn, W. Beck 269

Diarylstannylene reactions with some aryl azides: formation of different ring systems
U. Fooken, W. Saak, M. Weidenbruch 280

Electron-deficient triruthenium and triosmium clusters from the reaction of the cluster anions $[HM_3(CO)_{11}]^-$ (M = Ru, Os) with tricyclohexylphosphine in methanol
G. Süss-Fink, I. Godefroy, V. Ferrand, A. Neels, H. Stoeckli-Evans, S. Kahlal, J.-Y. Saillard, M. Teresa Garland 285

NMR analysis of trinuclear silver(I) complexes with μ_2-H bridged group VI metallocene hydrides as ligands and X-ray structure analysis of $\{[(\eta^5\text{-}MeC_5H_4)_2Mo(\mu_2\text{-}H)_2]_2Ag\}PF_6$
H. Brunner, D. Mijolovic, B. Wrackmeyer, B. Nuber 298

Preparation and characterization of Mo_2C_2, $Co_2Mo_2C_2$ clusters containing functionally substituted cyclopentadienyl ligands. The crystal structures of $[Mo_2(\mu\text{-}C_2HPh)(CO)_4(\eta^5\text{-}C_5H_4C(O)Me)_2]$ and $[Co_2Mo_2(\mu_4\text{-}C_2HPh)(\mu\text{-}CO)_4(CO)_4(\eta^5\text{-}C_5H_4C(O)Me)_2]$
J. Zhang, X.-N. Chen, Y.-Q. Yin, X.-Y. Huang 304

Silicagel support mediated nonphotolytic cleavage of the rhenium–rhenium bond of $[\{NC_5H_4N{=}NC_6H_4(R)\}(CO)_3Re^0]_2$. Synthesis of the monomeric species $Re^1\{NC_5H_4N{=}NC_6H_4(R)\}(CO)_3Cl$, crystal structure, spectroscopic and electron-transfer properties
R. Samanta, P. Munshi, B.K. Santra, N.K. Lokanath, M.A. Sridhar, J.S. Prasad, G.K. Lahiri 311

Synthesis and characterization of new allyl palladium complexes with thionate ligands; X-ray molecular structures of $[Pd_3(\eta^3\text{-}C_4H_7)_3\{pm(Me)_2S\}_2](CF_3SO_3)$ and $[Pd\{pm(Me)_2S\}_2]$, $\eta^3\text{-}C_4H_7 = \eta^3\text{-}2\text{-}Me\text{–}C_3H_4$, $pm(Me)_2S$ = Pyridine-4,6-dimethyl-2-thionate
R. Fernández-Galán, B.R. Manzano, A. Otero, N. Poujaud, M. Kubicki 321

New cyclolinear permethyloligosilane-siloxanes
A.I. Chernyavskii, N.A. Chernyavskaya, V.I. Aleksinskaya, B.G. Zavin 328

Reactions of $[PPh_4][(\eta^5\text{-}C_5Me_5)WS_3]$ with CuBr in $CHCl_3$: isolation and structures of an octanuclear cluster $[(\eta^5\text{-}C_5Me_5)WS_3Cu]_4$ and a trinuclear cluster $[(\eta^5\text{-}C_5Me_5)WS_3Cu_2Br(PPh_3)_2]$
J.-P. Lang, K. Tatsumi 332

Reductive dehydroxy coupling of 2-(hydroxymethyl)indenes to prepare ethano-bridged bis(2-indenyl) *ansa*-titanocenes
H. Palandoken, J.K. Wyatt, S.R. Hitchcock, M.M. Olmstead, M.H. Nantz 338

Substituent effects in cyclic voltammetry of titanocene dichlorides
J. Langmaier, Z. Samec, V. Varga, M. Horáček, K. Mach 348

Synthesis and characterization of 1- and 2-(ω-alken-1-yl)indenes, their lithium salts and dichlorozirconium(IV) complexes
H. Schumann, D.F. Karasiak, S.H. Mühle, R.L. Halterman, W. Kaminsky, U. Weingarten 356

Tetrakis[tris(trimethylsilyl)silylaluminium(I)] $Al_4[Si(SiMe_3)_3]_4$—eine siliziumreicheVerbindung mit zentralem tetraedrischem Al_4-Kern
A. Purath, H. Schnöckel 373

Bulky peralkylated cyclopentadienes by extension of Jutzi's pentamethylcyclopentadiene procedure
V. Quindt, D. Saurenz, O. Schmitt, M. Schär, T. Dezember, G. Wolmershäuser, H. Sitzmann 376

Hydrogenation of (1-phenylthiophene)$Mn(CO)_3$ (thiophene = 3-methylthiophene and 3,4-dimethylthiophene) complexes: formation of tetrakis(tricarbonyl-phenylthiomanganese)
D.S. Choi, S.H. Hong, S.S. Lee, Y.K. Chung 385

Synthesis, redox chemistry, molecular and electronic structure of some cyclopentadienylcobalt pentafulvene complexes
H. Wadepohl, F.-J. Paffen, H. Pritzkow 391

Priority Communication
The selective catalytic oxidation of terminal alcohols: a novel four-component system with MTO as catalyst
W.A. Herrmann, J.P. Zoller, R.W. Fischer 404

Errata 409

Conference Calendar 411

Author Index of Volume 579 415
Subject Index of Volume 579 417

The Publisher encourages the submission of articles in electronic form thus saving time and avoiding rekeying errors. Please refer to the online version of the Guide for Authors at http://www.elsevier.nl/locate/jorganchem

CONTENTS Direct

This journal is part of **ContentsDirect**, the ***free*** alerting service which sends tables of contents by e-mail for Elsevier Science books and journals. You can register for **ContentsDirect** online at: **www.elsevier.nl/locate/contentsdirect**

Now Available On

http://ChemWeb.com
The World Wide Club for the Chemical Community

http://chemweb.com/gateways/elsevier.html